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ABSTRACT

This annotated bibliography contains studies of manpower projections for areas within the north central region of the United States which includes Illinois, Indiana, Kentucky, Michigan, Minnesota, Ohio and Wisconsin. The studies are listed by state and the annotations provide a brief description of the nature of the study, primary contents, and methodology when available. Some objectives of the cited studies were to help administer specific programs, provide information for vocational guidance, inform the public about manpower problems, and advise government-related and other interested parties about manpower problems. Sources of current manpower projections, methodology, addresses of publishing organizations, an area index, and definitions of standard metropolitan areas are appended. (BC)

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A BIBLIOGRAPHY OF MANPOWER PROJECTIONS

FOR THE NORTH CENTRAL REGION

This is an annotated bibliography of publications containing manpower projections for areas within the North Central Region of the U.S. Bureau of Labor Statistics, which covers the States of Illinois, Indiana, Kentucky, Michigan, Minnesota, Ohio and Wisconsin.

Information for this bibliography was obtained by collection and analysis of publications of manpower projections in the Region conducted by public and private organizations. The Introduction includes a detailed discussion of the purpose, contents, and organization of the bibliography, as well as a commentary on the reasons for making manpower projections and the methodology applied.

Lois Orr initiated the collection of all publications included here and was responsible for much of the analysis of publications. The balance of the work was done by Linda K. Allen, under the technical direction of Mary E. Stokes, and under the general direction of William E. Rice, Assistant Regional Director for Program Planning in the North Central Regional Office.

Olga Scott rendered valuable assistance in selecting the type style, typing, and proofreading of the manuscript.

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Thomas J. McArdle,
Regional Director

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INTRODUCTION

This is the first edition of an annotated bibliography listing and describing recent studies (in most cases, since 1962) which include manpower projections for multistate regions, states, and areas within the North Central Region[1] of the U.S. Department of Labor's Bureau of Labor Statistics. Manpower projections in the studies and the methodology by which they were derived are briefly described. Periodically supplements will be prepared updating and extending this report.[2]

This publication is a first effort to fill a communications vacuum of significant dimensions. Many of the countless hours and dollars devoted to manpower forecasts will be used inefficiently until the various organizations engaged in such projections can be fully informed as to the work which is being done or which has already been done by other groups. The problem is particularly critical at the local level, where a multiplicity of organizations, governmental and private, may be doing similar work with data covering the same area. Hopefully this bibliography may pave the way for other such publications by manpower-related organizations in other regions and at the national level.

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[1]Includes the States of Illinois, Indiana, Kentucky, Michigan, Minnesota, Ohio, and Wisconsin.

[2]Any agency whose publications are appropriate for listing in supplements or future editions of this bibliography is encouraged to submit copies of such publications to the North Central Regional Office of the U.S. Bureau of Labor Statistics. Such submissions are very welcome, as they are essential to the success of this bibliography.

The term "manpower projections" here refers to (1) broad projections of manpower demand based on estimates of future economic activity, (2) broad projections of manpower supply derived from estimates of future population, and (3) detailed projections of supply or demand for specific occupations.[1] Ordinarily the projections cover periods of about 10 or 15 years. Projections for longer periods are not common and are usually attempted only in very broad terms.

PURPOSES

The purposes of the studies are important, since objectives play a large part in determining the nature of the projections, the periods covered, and the degree of accuracy and detail with which they are executed. Some primary purposes for studies concerned principally with manpower projections are: (1) To help administer specific programs, (2) to provide information for vocational guidance, (3) to alert government-related and other interested parties to emerging manpower problems, and (4) to inform the public about manpower problems. In other cases, especially in studies for metropolitan areas, manpower projections are essential parts of broader studies concerned with such subjects as urban planning, population growth, water needs, transportation requirements, consumer markets, industrial development, and general economic growth. In most cases, the purpose of a study can be determined either by noting the sponsoring or author agency or by reading the brief general description of the study which precedes the list of projections.

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[1] No distinction between the terms "forecast" and "projection" is made in this publication.

In addition to the aforementioned general motives, a major new stimulus to area economic studies is the Federal-Aid Highway Act of 1962, which requires "urbanized areas" as defined by the U. S. Department of Commerce (in general, cities with populations of 50,000 or more) requesting federal funds for highways to institute comprehensive, continuing transportation planning programs. Such programs are to be carried out cooperatively by state highway departments and affected local government bodies in 233 areas of the Nation. An important element in the research underlying these planning programs is the projection of future manpower factors. Some of these programs either have already published reports or are in the process of preparing reports containing such projections; these reports appear in the listing as "area transportation studies." Other reports containing manpower projections may have been issued unknown to this Bureau. All of the programs are certain to make manpower projections at some stage of the transportation planning process.[1]

A large number of the studies in this bibliography were partially or totally financed through urban planning grants from the Department of Housing and Urban Development under the urban planning assistance provision of the Housing Act of 1954 as amended. Several were jointly financed by state and federal government agencies. Public utilities also financed several studies to measure future markets for their service areas.

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[1] Inquiries concerning publications by area transportation planning programs which may not be listed in this bibliography should be addressed to the individual program, the address of which may be obtained from the 1968 Directory of Urbanized Area Transportation Planning Programs, available from the Urban Planning Division, Bureau of Public Roads, Federal Highway Administration, Washington, D. C. 20591.

TYPES OF AUTHOR ORGANIZATIONS

Organizations which made the studies include regional and area planning commissions, state and city government agencies, universities, private non-profit organizations, associations, and private business firms. State and local government agency studies often were contracted to private research and consulting firms or universities. Several regional and national organizations made state, regional or metropolitan area projections.

METHODOLOGY

The techniques utilized in projecting manpower factors were affected by study objectives, assumptions, available data, and financial and staff resources. The degree of elaborateness varied from simple trend lines to complex mathematical models. No judgements are made in this bibliography as to the quality or appropriateness of the methodology applied in various projections. Techniques included extrapolation from trends, step-down ratios from regional or national projections, input-output analyses, economic base models, econometric models, personal visits, and mail questionnaire surveys. Frequently the manpower projections depended on stability in certain ratios, such as in employment relationships among industries. Often a combination of demographic and economic analyses were implemented.

Some sources of methodology for making manpower projections are found in Appendix C. See especially the first citation listed.

ORGANIZATION OF THE BIBLIOGRAPHY; EXPLANATIONS OF CITATIONS

Within the bibliography, studies are listed by state. Titles of all studies are numbered according to the state they cover. Illinois studies are 100's. Indiana studies are 200's. Kentucky studies are

300's. Michigan studies are 400's. Minnesota studies are 500's. Ohio studies are 600's. Wisconsin studies are 700's. Studies covering major parts of more than one state (Multistate studies) are 800's. Under each state section in the bibliography studies are listed in alphabetical order by authoring organization's name or (when studies are prepared independently by an individual) by the author's last name. Numbering within each state section follows the order of the listing. For example, the first citation under the Illinois section is a study by the Americen Hospital Association which is fully annotated under the multistate section. The user is referred to the number of the complete annotation. The next two studies are primarily for the State of Illinois. The report by the Chicago Area Transportation Study, Number 101, precedes the study by the Copley International Corporation, Number 102, and so on. Where more than one study by the same authoring organization is listed under the same state, the studies are grouped together under the organization's name, but each study is still given an individual number.

The authorship or sponsorship of some studies made it necessary to alter the citation form in a few cases; where appropriate, however, citations are as follows:

Organization which prepared the study.

Study No. Title. Series or report name and number. Number of volumes. Prepared (or edited) by Name(s) of individual(s) within the organization primarily responsible (if given in the study). Prepared for Organization which ordered or contracted the study (when different from organization which prepared the study). Place of publication (where available), Date of publication (where available). Number of pages. (Any other pertinent information.)

(Description and projections.)

Covers area covered.

Titles of studies which are marked with an asterisk (*) are available for use in the library of the North Central Regional Office of the Bureau of Labor Statistics. Names of organizations marked with a dot (•) are suitable for inquiries concerning availability of the publication. (When none of the organizations otherwise included in the citation are suitable for inquiry, the inquiry organization is placed at the end of the citation as "Address:_____•". Organizations marked with a dot or as "Address" organizations are listed alphabetically in Appendix D, together with their addresses. In case the publication is out of print or is available only in limited supply, the organizations at these addresses may possibly be able to make arrangements for access to file copies.

Annotations include a brief description of the nature of the study or its primary contents and a list of the manpower projections it contains, as well as a note on methodology, where available. The area covered is next described. Where Standard Metropolitan Statistical Areas are referred to in the annotations, these are referred to as "SMSA's". The definitions of all SMSA's in the North Central Region are given in Appendix E.

A complete listing of the six appendices attached at the end of this bibliography is found in the Table of Contents.

HOW TO LOCATE STUDIES BY AREA

The best way to locate studies covering specific areas is to look up the area in the Area Index (Appendix G), which provides numbers of studies by state, and within states, by statewide, metropolitan, county, and regional (regions within the state or parts of which fall within the

state) subgroups. After locating the number of a study in the Area Index, the user should consult the complete annotation. As mentioned above, the last section of each annotation gives, in as detailed terms as are available, the area covered by the study, in order to let the user know how geographically specific the projections are.

A NOTE ON REGIONAL MANPOWER PROJECTIONS BY THE U. S. BUREAU OF LABOR STATISTICS

The Bureau of Labor Statistics has been making long-range projections of manpower resources and requirements since the forties, but not until recently have projections been prepared for areas more specific than the Nation or very broad regions. In 1966 the Bureau issued projections of labor force by state to 1980, and plans are now being made to project labor force for large metropolitan areas based on metropolitan area population projections which currently are in preparation at the Department of Commerce's Bureau of the Census.

ILLINOIS

American Hospital Association.

MANPOWER RESOURCES IN HOSPITALS--1966. See Multistate section, No. 801.

Chicago Area Transportation Study.•

101. Chicago Area Transportation Study. Vol. II. DATA PROJECTIONS. 1960. 133 p.

Part of a study of transportation needs. Projects employment by industry to 1980, based on a number of techniques including trends and input-output analysis. Methodology is discussed in Irving Hoch's FORECASTING ECONOMIC ACTIVITY FOR THE CHICAGO REGION, Chicago, May 1959, 116 p.

Covers Chicago Standard Metropolitan Area (Cook, Du Page, Kane Lake and Will Counties in Illinois and Lake County in Indiana) and Chicago Area Transportation Study Area (approximately defined by the circumference of a circle generated by a 30-mile radius centered in the Chicago Loop, contains all of Cook County and large fractions of Du Page and Lake Counties).

Copley International Corporation.•

102. "PROJECTIONS OF EMPLOYMENT, POPULATION, AND INCOME FOR THE SPRINGFIELD MARKET AREA 1965 - 1980." Springfield Illinois Review of Business and Economic Conditions. January-March 1967. p. 2-6. (Condensation of an unpublished study by George K. Higgins, "Economic Report on the Springfield Region.")

Projects total employment for each county and total area employment for government, agriculture, and manufacturing, based on sector output estimates from national and local trends converted to employment projections.

Covers Cass, Christian, Greene, Logan, Macoupin, Mason, Menard, Montgomery, Morgan, Sangamon, and Scott Counties.

Illinois Department of Business and Economic Development,• Springfield.

103. INDUSTRIAL GROWTH TRENDS IN ILLINOIS.* Prepared by Ronald G. Cummings. Springfield, March 1967. 291 p.

Presents past trends in economic activity. Projects 3 levels of employment for 4 broad industry divisions and for 20 manufacturing industries, based on 3 rates of change in industry employment.

Covers State of Illinois.

Illinois Department of Business and Economic Development.• (Cont'd)

104. POPULATION PROJECTIONS: ECONOMIC GROWTH PROSPECTS. Prepared by James A. McDonald. March 1967. 32 p.

Projects 2 series of manufacturing employment by county and place of residence, based on different growth rates.

Covers Illinois counties and 11 regions of the State.

The following publications were 3 of a series of 11 reports on Development of a Long-Range Economic Plan for Illinois prepared and coordinated under the direction of Robert Ferber of the Bureau of Business and Economic Research, University of Illinois:

105. ASPECTS OF MANPOWER SUPPLY IN ILLINOIS REGIONS, 1940, 1950 AND 1960. Prepared by Eleanor G. Gilpatrick. Springfield, March 1967. 237 p.

Study of manpower supplies in Illinois. Projects male unemployment rates and labor force participation rates for 11 regions by sex for 1970 and 2010. A number of statistical techniques are utilized.

Covers 11 regions of the State of Illinois.

106. SERVICE INDUSTRY STUDY OF THE ILLINOIS STATEWIDE ECONOMIC STUDY.* Prepared by David J. Luck. Springfield, March 1967. 154 p.

Forecasts the future for the service segment of the Illinois economy. Employment projections to 1980 and 2010: (1) All services combined and 21 separate categories, (2) finance and real estate services for 6 industries, (3) combined legal, engineering, and other professional services, and (4) total service growth. Regression coefficients or ratios of change previously used in projecting a category's future activity were applied to most recent available employment figures for each service industry studied to obtain preliminary employment projections. Projected productivity ratios were then applied to the preliminary figures to yield final employment forecasts.

Covers State of Illinois and, in most cases, 11 regions.

107. THE ELECTRONICS INDUSTRY AND ECONOMIC GROWTH IN ILLINOIS. Prepared by Hugh O. Nourse. Springfield, March 1967.

Describes and explains the locational pattern for the electronics industry to estimate the contribution this industry will make to the State's economic growth. Projects employment in 3 major divisions of the electronics industry to 1975, based on several different assumptions concerning industry growth.

Covers State of Illinois.

Hammer, Greene, Siler Associates.

ECONOMIC BASE STUDY. See Indiana section, No. 204.

Illinois Department of Labor.•

108. ILLINOIS LABOR FORCE PROJECTIONS FOR 1970. Chicago, (no date). 26 p. (Out of print.)

Projects labor force by age and sex, occupation and industry to 1970, based on trends in labor force participation rates applied to population data from Illinois Department of Public Health.

Covers State of Illinois.

Illinois Division of Highways. Area Transportation Studies.

Illinois Division of Highways and Lake County, Illinois.

109. CARS AND JOBS IN LAKE COUNTY, ILLINOIS--1985.* March 1965. 57 p. (Lake County Transportation Study.•) (Reprint of a 1964 paper prepared with the special assistance of W. Raymond Mills and Robert G. Du Charme of the Northeastern Illinois Planning Commission.)

Provides projections of the number and location of jobs and automobiles in Lake County to 1985. Employment projections: (1) Total manufacturing industry for Lake County townships, 1985, and (2) total nonmanufacturing industry (distribution of employment gains) by township, 1960-85. Based largely on earlier projections of the Northeastern Illinois Planning Commission.

Covers the Northeastern Illinois Metropolitan Area (Chicago SMSA), the 5 outlying counties combined, and especially Lake County.

H. W. Lochner Consultants.

110. Fox River Valley Transportation Study.• (Title uncertain.) (Scheduled for publication late 1968.)

Manufacturing employment projections to 1985, based on past trends.

Covers area from north of Elgin to south of Aurora.

Illinois Division of Highways. Area Transportation Studies. (Cont'd)

111. INTERIM REPORT COVERING THE FORECAST OF ECONOMIC FACTORS AFFECTING DEVELOPMENT FOR THE JOLIET AREA. Prepared for Joliet Area Transportation Study.● Chicago, February 1968. 134 p.

Employment projections for 10 industry groups in 1985, based on step-down method, trends, and land use.

Covers 13 townships in Will County.

IIT (Illinois Institute of Technology) Research Institute. Corplan Associates.

112. TECHNOLOGICAL CHANGE: ITS IMPACT ON INDUSTRY IN METROPOLITAN CHICAGO. 8 Vol's. Chicago, May 1964. Address: Chicago Association of Commerce and Industry.●

Vol. I.	Primary Metals. 64 p.
Vol. II.	Metal Working Industries. 62 p.
Vol. III.	Electrical and Electronic Industries. 41 p.
Vol. IV.	Chemical Processing Industries. 40 p.
Vol. V.	Printing and Publishing Industries. 44 p.
Vol. VI.	Office Industry. 51 p.
Vol. VII.	Industries of the Future. 45 p.
Vol. VIII.	Summary of the Need, Opportunity, and Recommended Action. 63 p.

Findings of a two and one-half year study of technological change and its impact on employment, skills, and training in seven basic industries in the metropolitan area. Quantitative and qualitative projections for next 10 or 20 years. Last volume includes impact of technological change in business, government, labor, education, finance, and social services.

Covers Chicago metropolitan area.

Moline Planning and Zoning Department, Comprehensive Plan Office.

113. THE ECONOMIC POTENTIAL OF THE DAVENPORT-ROCK ISLAND-MOLINE METROPOLITAN AREA: A FIRST REPORT.* Prepared for the Moline Plan Commission. Moline, January 1965. 164 p. Address: City of Moline, Planning and Zoning Department.●

Study of the economic potential of the metropolitan area. Projections for 1985: (1) Total employment by major industry group, based on output and productivity projections, (2) occupational and industrial employment distribution, based on trends, using projected total employment as a control total, and (3) unemploy-

Moline Planning and Zoning Department, Comprehensive Plan Office. (Cont'd)

ment, based on National Planning Association 1962 projection of economic growth and above-mentioned employment projection. Methodology discussed in the Commission's Outline of Methodology for Conducting the Economic Study of the Davenport-Rock Island-Moline Metropolitan Area in 1964.

Covers Davenport-Rock Island-Moline SMSA.

National Planning Association.

ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR TWO HUNDRED AND TWENTY-FOUR METROPOLITAN AREAS. STATE PROJECTIONS TO 1975: A QUANTITATIVE ANALYSIS OF ECONOMIC AND DEMOGRAPHIC CHANGES. See Multistate section, Nos. 804 and 805.

Northeastern Illinois Planning Commission.•

114. METROPOLITAN PLANNING GUIDELINES PHASE ONE: BACKGROUND DOCUMENTS: INDUSTRIAL DEVELOPMENT.* Chicago, 1965. 274 p. (One of 7 volumes to be utilized in the preparation of a comprehensive plan for the metropolitan area.)

Information on location and movement of manufacturing in the area from 1955 to 1963. Particular attention to current and future numbers, kinds, and distribution of manufacturing jobs. Projections to 1985: (1) Employment for 21 manufacturing industries and (2) total manufacturing employment for 38 parts of the metropolitan area. Most data from records of Illinois Bureau of Employment Security. Extensive appendices describe techniques.

Covers Chicago SMSA.

Population Research and Training Center and Chicago Community Inventory, University of Chicago.•

115. POPULATION PROJECTIONS FOR THE CITY OF CHICAGO AND THE CHICAGO METROPOLITAN AREA 1970 AND 1980.* Prepared by Patricia Hodge under the direction of Evelyn M. Kitagawa. Introduction by Philip M. Houser. Chicago, May 1964. 49 p.

Population of City and SMSA, 1910-1960. Projections to 1970 and 1980 by age, color, and sex for City, SMSA, and ring of SMSA: (1) Labor force derived from population projections under assumption that same proportion of each sex-age-color subgroup would be in labor force in 1970 and 1980 as in 1960 and (2) labor force participation rates from 1960 Census data. City labor force participation rates by race derived indirectly from Census data.

Covers City of Chicago, SMSA,and ring of SMSA.

Rock Island County Regional Planning Commission.●

116. ECONOMIC BASE.* Technical Studies Report Two. Rock Island, Illinois, February 1966. 82 p.

Sector analysis. Economy and economic potential of Rock Island County using studies of the metropolitan area as a framework. Projects county employment by major industry division for 1985.

Covers Rock Island County and some aspects of the Davenport-Rock Island-Moline SMSA.

Southwestern Illinois Metropolitan Area Planning Commission, Collinsville, Illinois.●

117. OVERALL ECONOMIC DEVELOPMENT PROGRAM: ST. CLAIR COUNTY ILLINOIS. Collinsville, Illinois, December 1966. 109 p.

Inventory of economic activity and first step to formally establish an overall economic development program under provision of the Public Works and Economic Development Act of 1965. Projections: (1) Labor force by sex and age to 1970, based on population projections and (2) number of jobs required by 1970 to reach different employment goals.

Covers St. Clair County.

118. Economic base and population study. (Title uncertain.) (In process.)

To contain employment projections.

To cover Madison and St. Clair Counties.

Spindletop Research, Inc.

ECONOMIC DEVELOPMENT IN THE OHIO RIVER VALLEY REGION. See Multistate section, No. 806.

Tri-County Regional Planning Commission, Peoria, Illinois.●

119. COMPREHENSIVE REGIONAL PLAN REPORT NO. 2: POPULATION AND ECONOMIC BASE. Peoria, Illinois, May 1962. 356 p.

Study of population and economic activity. Projections for 1970 and 1980: (1) Labor force by occupation, age, and sex and (2) employment in basic (export) industries. Based on area trends.

Covers Peoria SMSA.

U.S. Bureau of Labor Statistics.

LABOR FORCE PROJECTIONS BY STATE, 1970--1980. See Multistate section, No. 807.

U. S. Outdoor Recreation Resources Review Commission.

PROJECTIONS TO THE YEARS 1976 AND 2000: ECONOMIC GROWTH, POPULATION, LABOR FORCE AND LEISURE AND TRANSPORTATION. See Multistate section, No. 808.

INDIANA

American Hospital Association.

MANPOWER RESOURCES IN HOSPITALS--1966. See Multistate section, No. 801.

Beckman, Swenson, and Associates, Fort Wayne, Indiana.•

201. GROWTH POTENTIAL ANALYSIS FOR MORGAN COUNTY, INDIANA. Prepared for Morgan County Plan Commission. Fort Wayne, April 1967. 27 p.

Study of population growth and economic activity. Projections: (1) Labor force, based on area population projections and (2) employment by occupational group, based on U.S. Bureau of Labor Statistics national projections.

Covers Morgan County.

202. WHITLEY COUNTY, INDIANA GROWTH POTENTIAL ANALYSIS: PRELIMINARY REPORT.* Prepared for Whitley County Plan Commission. Fort Wayne, September 1967. 46 p.

Study of population growth and economic activity. Projects labor force by sex for 1970,1980, and 1985, based on area population projections.

Covers Whitley County, which includes Cities of Columbia City and Churubusco.

City of Fort Wayne, Indiana, Department of Redevelopment and Hammer and Company Associates.

203. FORT WAYNE COMMUNITY RENEWAL PROGRAM.* Prepared for the Fort Wayne Redevelopment Commission.● Fort Wayne, March 1964. 219 p.

Inventory and forecasts of population, housing, and land use and outline of urban renewal program. Projects total employment and employment by broad industry group, based on area trends and population projections.

Covers Allen County.

Hammer, Greene, Siler Associates, Washington, D. C. (Economic Consultant) and Barton-Aschman Associates, Chicago (Supervising Consultant).

204. ECONOMIC BASE STUDY. Technical Work Papers. Prepared for the Indianapolis Regional Transportation and Development Study.●

Part I. THE PRESENT REGIONAL ECONOMY. March 1966. 59 p.
Part II. ANALYSIS AND PROJECTIONS. July 1966. 100 p.

Inventory and forecasts of economic activity for land use and transportation planning. Projections: (1) Employment, 1975, in Great Lakes Region for 8 nonfarm industry groups, based largely on National Planning Association projections and (2) low, medium, and high employment for 10 broad industry groups in IRTADS Area, based on output projections and various rates of technological change.

Covers Great Lakes Region (includes the States of Indiana, Ohio, Michigan, Illinois, and Wisconsin) and IRTADS (Indianapolis Regional Transportation and Development Study) Area (also called Nine-County Area because it includes the Counties of Marion, Hamilton, Hancock, Hendricks, Johnson, Morgan, Shelby Boone, and Madison).

Indiana Employment Security Division, Research and Statistics Section.●

205. INDIANA MANPOWER TRENDS TO 1975.* Prepared by Martin W. Heller. Indianapolis, January 1967. 36 p.

Projections, 1970 and 1975: (1) Labor force by age and sex, based on population projections, (2) high and low employment demand by industry group, based on past relationships and trends determined by the use of regression models, using high

Indiana Employment Security Division, Research and Statistics Section.• (Cont'd)

and low rates of GNP growth, and (3) employment demand by occupation for 11 types of industry, based on changes in employment in the various industries and the changing occupational proportions in each industry group.

Covers State of Indiana.

206 MANPOWER REQUIREMENTS IN INDIANA HOSPITALS.* Indianapolis, June 1967. 9 p.

Study of anticipated manpower needs in hospitals. Projects demand for more than 35 health occupations to 1970 and 1975, based on surveys by Indiana and Indianapolis Hospital Associations.

Covers State of Indiana.

Lake-Porter County Regional Transportation and Planning Commission, Crown Point, Indiana.• (Title not available.) (In process.)

207. To include employment projections.

To cover Lake and Porter Counties.

National Planning Association.

ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR TWO HUNDRED AND TWENTY-FOUR METROPOLITAN AREAS. STATE PROJECTIONS TO 1975: A QUANTITATIVE ANALYSIS OF ECONOMIC AND DEMOGRAPHIC CHANGES. See Multistate section, Nos. 804 and 805.

Purdue University, Department of Agricultural Economics. Address: Purdue University, Agricultural Experiment Station.•

208 SOUTHERN INDIANA EMPLOYMENT PROJECTIONS--1970.* Lafayette, Indiana Research Program Report 151. Prepared by George R. King and L. T. Wallace. Lafayette, September 1964. 18 p.

Major emphasis on methodology. Employment projections, 1970: Total, agricultural, manufacturing, and service. Major techniques include use of linear and multiple regression models.

Covers an area composed of 33 counties south of a line following the northern borders of Vigo, Clay, Owen, Monroe, Brown, Jackson, Jennings, Ripley, and Dearborn Counties.

Purdue University, School of Technology.•

209. COMPUTER AND ELECTRONIC DATA PROCESSING MANPOWER REQUIREMENTS FOR INDIANAPOLIS, INDIANA.* Manpower Report 67-2. Prepared by J. P. Lisack and A. R. Sadaka. Lafayette, Indiana, May 1967. 67 p.

Study of manpower and educational needs for computer and related occupations. Projects demand for 23 computer-related occupations through 1971, based principally on mail survey and trends.

Covers Indianapolis SMSA.

210. MANPOWER AND TRAINING NEEDS IN FLUID POWER (HYDRAULICS AND PNEUMATICS) FOR INDIANA INDUSTRIES.* Manpower Report 66-10. Prepared by J. P. Lisack and S. L. Pritchett. Lafayette, November, 1966. 47 p.

Inventory of fluid manpower supplies. Projections: (1) Statewide fluid manpower requirements by occupational level to 1972 and (2) number of new personnel requiring fluid manpower training annually by industry division for 7 metropolitan areas. Based principally on mail survey.

Covers State of Indiana and the following metropolitan areas (presumably SMSA's): Gary-Hammond-East Chicago, Evansville, Fort Wayne, Indianapolis, Muncie, South Bend, and Terre Haute.

211. MANPOWER REQUIREMENTS FOR INDUSTRIAL ILLUSTRATORS AND DRAFTSMEN IN THE INDIANAPOLIS, INDIANA AREA.* Manpower Report 67-1. Prepared by J. P. Lisack. Lafayette, April 1967. 56 p.

Inventory and estimates of manpower needs. Projects employment needs for illustrators and draftsmen, based principally on survey of business firms.

Covers Indianapolis area.

212. REGION ONE MANPOWER (NORTHWEST SECTOR OF INDIANA).* Manpower Report 66-9. Prepared by J. P. Lisack. Lafayette, October 1966. 59 p.

Study of manpower supply and demand. Particular attention given to need for technical manpower. Projections to 1975: (1) Employment demand and supply for broad occupational groups by major industry and (2) demand for engineers and technicians by industry. Based on trends, Indiana Employment Security data, and population projections. Technical

Purdue University, School of Technology.• (Cont'd)

manpower projections make use of National Science Foundation estimates of technical manpower as a percent of industry employment and ratios of technicians to scientists and engineers.

Covers State of Indiana and Region 1 (an area in the northwest corner of Indiana composed of Lake, Porter, La Porte, Newton, Jasper, Starke, and Pulaski Counties).

Spindletop Research, Inc.

ECONOMIC DEVELOPMENT IN THE OHIO RIVER VALLEY REGION. See Multistate Section, No. 806.

U.S. Bureau of Labor Statistics.

LABOR FORCE PROJECTIONS BY STATE, 1970--1980. See Multistate section, No. 807.

U. S. Outdoor Recreation Resources Review Commission.

PROJECTIONS TO THE YEARS 1976 AND 2000: ECONOMIC GROWTH, POPULATION, LABOR FORCE AND LEISURE AND TRANSPORTATION. See Multistate section, No. 808.

KENTUCKY

American Hospital Association.

MANPOWER RESOURCES IN HOSPITALS--1966. See Multistate section, No. 801.

Benton Planning Commission.•

301. POPULATION AND ECONOMIC BASE STUDY. December 1966. 89 p.

Inventory, analysis, and projections of economic and human resources. Projections for 1975 and 1985: (1) Employment by major industry group, based on trends and (2) total employment and percent of population employed, based on population projections and trend in percent of population employed 1930 - 60.

Covers Benton Planning Area (an irregularly shaped area of urban development in an around City of Benton) and Marshall County, Kentucky.

City County Planning Commission,• Lexington and Fayette County.

302. A PLAN FOR LAND USE.* Lexington, 1967. 176 p.

Study of present and future land use. Projections: (1) Employment for major industry groups and for 8 manufacturing industries to 1970 and 1980, based on past trends and (2) persons living and working on farms in Fayette County to 1980.

Covers Lexington SMSA (Fayette County).

Hammer and Company Associates, Washington - Atlanta.•

303. SURVEY, ANALYSIS AND FORECAST: THE ECONOMIC BASE AND POPULATION: METROPOLITAN LOUISVILLE.* Prepared for Louisville and Jefferson County Planning and Zoning Commission of Louisville, Kentucky. 1964. 280 p.

Analysis and forecast of economic activities. Projections: (1) Manufacturing employment to 1990 by 5-year interval at 3 levels, based on 3 rates of technological advance and (2) total nonagricultural employment and employment for 6 industry divisions to 1990 by 5-year interval, based on several sets of assumptions concerning productivity and technological change.

Covers Louisville, Kentucky SMSA.

Kentucky Department of Commerce, Division of Community Planning and Development.•

304. BOYD-GREENUP COUNTIES URBAN PLANNING AREA BASE STUDIES, VOL. 1. Ashland, 1967. 162 p.

Study of economy of Boyd and Greenup Counties for use in urban planning. Projections to 1970 by 5-year interval: (1) Total employment for metropolitan region and Boyd and Greenup Counties (combined), based on past trends and (2) employment by broad industry group for Boyd and Greenup Counties (combined), based on past trends modified by industry sector analysis.

Covers the "Metropolitan Region" (Huntington-Ashland SMSA) and Boyd and Greenup Counties combined.

National Planning Association.

ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR TWO HUNDRED AND TWENTY-FOUR METROPOLITAN AREAS. STATE PROJECTIONS TO 1975: A QUANTITATIVE ANALYSIS OF ECONOMIC AND DEMOGRAPHIC CHANGES. See Multistate section, Nos. 804 and 805.

Spindletop Research, Inc.

ECONOMIC DEVELOPMENT IN THE OHIO RIVER VALLEY REGION. See Multistate section, No. 806.

University of Kentucky, Bureau of Business Research.

305. KENTUCKY EMPLOYMENT TRENDS FROM 1951 TO 1963 WITH PROJECTIONS TO 1965-75. Prepared by John L.Fulmer and James E. Pitts. Lexington, 1965. 79 p.

(No description available.)

Covers State of Kentucky.

306. KENTUCKY OCCUPATIONAL TRENDS FROM 1950 TO 1960 WITH PROJECTIONS TO 1975. Prepared by John L. Fulmer. Lexington, 1965. 60 p.

Analysis of employment by occupation and projections of probable demands for different occupations. Projects employment by major occupation and net growth yearly in number of jobs in major occupational groups, based on trend-line studies of state's employment patterns and analysis of state and national employment patterns.

Covers State of Kentucky.

U. S. Bureau of Labor Statistics.

LABOR FORCE PROJECTIONS BY STATE, 1970--1980. See Multistate section, No. 807.

U. S. Outdoor Recreation Resources Review Commission.

PROJECTIONS TO THE YEARS 1976 AND 2000: ECONOMIC GROWTH, POPULATION, LABOR FORCE AND LEISURE AND TRANSPORTATION. See Multistate section, No. 808.

MICHIGAN

American Hospital Association.

MANPOWER RESOURCES IN HOSPITALS--1966. See Multistate section, No. 801.

Battelle Memorial Institute.

401. FINAL REPORT ON THE MICHIGAN MANPOWER STUDY: AN ANALYSIS OF THE CHARACTERISTICS OF MICHIGAN'S LABOR FORCE IN THE NEXT 15 YEARS. Sponsored and assisted by Michigan Departments of Labor,• Education, and Commerce. Columbus, Ohio, November 1966. 108 p.

Study of manpower demand and supply in the State with the intent of developing an improved method of analysis. Projects total labor force and employment to 1980 for 45 occupations and 32 industries. Techniques include industry-occupational analysis, trends, productivity and technology studies, and socioeconomic labor force model.

Covers State of Michigan and Detroit SMSA.

See also study edited by Grand River Basin Coordinating Committee below, No. 403.

Doxiadis, Constantinos A.

402. EMERGENCE AND GROWTH OF AN URBAN REGION: THE DEVELOPING URBAN DETROIT AREA. Published by the Detroit Edison Company.•

Vol. I. Analysis. 1966. 335 p.
Vol. II. Future Alternatives. 1967. 408 p.

Inventory and analysis of available data and examination of existing trends and prospects. Projections to year 2000: (1) Total employment, based on population projections, (2) employment by industry division, based on projected output and productivity, and (3) distribution of employment in basic functions. A variety of techniques are described.

Covers 25 counties in Michigan, 9 in northern Ohio, and 3 in Canada.

Grand River Basin Coordinating Committee (ed.).

403. GRAND RIVER BASIN MICHIGAN: COMPREHENSIVE WATER RESOURCES STUDY. Detroit, 1966. 392 p. Address: U.S. Army Engineer District, Detroit.•

Analysis and projections of economic activities, especially for water-using and other key industries.

Part I. Battelle Memorial Institute. "Population Growth and General Economic Development". Prepared for U.S. Army Engineer District, Detroit. 268 p.

Grand River Basin Coordinating Committee (ed.). (Cont'd)

Projects labor force and industry employment to 2020 by 10-year interval, based on population projections, trends, and Battelle socioeconomic analysis.

Part IV. U.S. Department of Agriculture, Economic Research Service. "Agricultural Activity in the Grand River Basin 1970-2020: A Projective Study." 98 p.

Projects farm population and employment to 2020 by 10-year interval, based on trends in number and size of farms.

Covers Grand River Basin Service Area (Barry, Clinton, Eaton, Gratiot, Ingham, Ionia, Jackson, Kent, Montcalm, Ottawa, and Shiawassee Counties in the State of Michigan.

Hammer, Green, Siler Associates.

ECONOMIC BASE STUDY. See Indiana section, No. 204.

Henderson, James M.

NATIONAL GROWTH AND ECONOMIC CHANGE IN THE UPPER MIDWEST. ECONOMIC GROWTH AND ADJUSTMENT IN THE UPPER MIDWEST: 1960-1975. See Multistate section Nos. 802 and 803.

Michigan State University, Bureau of Business and Economic Research.

404. ECONOMIC AND POPULATION BASE STUDY OF THE LANSING TRI-COUNTY AREA (AN INTERINDUSTRY RELATIONS ANALYSIS). Prepared for the Tri-County Regional Planning Commission, Lansing, Michigan. Lansing, 1960. 319 p.

Inventory and forecasts of economic activity. Projects employment by industry to 1970 and 1980, based on input-output and industry sector analysis.

Covers Southern Upland of Michigan (Clinton, Eaton, and Ingham Counties).

National Planning Association.

ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR TWO HUNDRED AND TWENTY-FOUR METROPOLITAN AREAS. STATE PROJECTIONS TO 1975: A QUANTITATIVE ANALYSIS OF ECONOMIC AND DEMOGRAPHIC CHANGES. See Multistate section, Nos. 804 and 805.

Northern Michigan University.

405. MANPOWER PROBLEMS AND ECONOMIC OPPORTUNITIES IN AN ADJUSTING REGIONAL ECONOMY: THE UPPER PENINSULA OF MICHIGAN. Marquette, Michigan, 1965. 267 p. (Prepared under a Manpower Development and Training Act research grant. (Out of print.) Address: Available on microfilm at the library of the University of Michigan.

Study of regional labor market. Projections to 1970 and 1975: (1) Labor demand for 14 industry groups, based on econometric model in which the quantity of labor demanded is a function of national and regional income and time, (2) labor supply by age and sex, based on population projections, and (3) unemployment, based on projections of labor demand and supply.

Covers the 15 counties combined of the Upper Peninsula of Michigan.

Schellie Associates, Indianapolis, Indiana.

406. THE ECONOMY OF KALAMAZOO COUNTY, MICHIGAN: A REPORT OF THE PLANNING STUDIES SERIES OF THE COUNTY'S COMPREHENSIVE PLANNING PROGRAM.* Prepared for the Kalamazoo Metropolitan County Planning Commission.• (Institute of Urban Life, Chicago,prepared the Economics and Industrial Survey section.) Indianapolis, April 1965. 107 p.

Inventory and forecasts of economic activity with special attention to industrial land needs. Projects total employment and employment by major industry group to 1985, using National Planning Association projections, area trends, and industry sector analysis.

Covers Kalamazoo County.

University of Michigan, Bureau of Business Research.•

407. MICHIGAN IN THE 1970'S: AN ECONOMIC FORECAST. Michigan Business Studies, Vol. XVI, No. 4. Edited and with an introduction by William Haber, W. Allen Spiney, and Martin R. Warshaw. Ann Arbor, 1965. 292 p.

Collection of articles focused on study and forecast of the Michigan economy in the 1970's. Follows an earlier study, The Michigan Economy: Its Potentials and Its Problems, published by the W. E. Upjohn Institute for Employment Research in Kalamazoo.

Articles with manpower aspects:

Sydney Sonenblum. "The National Economy." p. 39-92.
David Goldberg. "A Demographic Analysis of Michigan 1960-80. p. 119-168.
Lowell D. Ashley. "Michigan: Prologue and Prospect." p. 169-201.

University of Michigan, Bureau of Business Research.• (Cont'd)

Wilbur R. Thompson. "The Future of the Detroit Metropolitan Area". p. 203-240.
Louis A. Ferman. "The Social Structure of the Michigan Labor Market". p. 241-292.

Covers State of Michigan and Detroit metropolitan area.

U.S. Bureau of Labor Statistics.

LABOR FORCE PROJECTIONS BY STATE, 1970--1980. See Multistate section, No. 807.

U. S. Department of Agriculture, Economic Research Service.

See study edited by Grand River Basin Coordinating Committee above, No. 403.

U. S. Outdoor Recreation Resources Review Commission.

PROJECTIONS TO THE YEARS 1976 AND 2000: ECONOMIC GROWTH, POPULATION, LABOR FORCE AND LEISURE AND TRANSPORTATION. See Multistate section, No. 808.

Wayne State University, Institute for Regional and Urban Studies.•

408. TRENDS IN THE DETROIT AREA ECONOMY: A BACKGROUND STUDY FOR THE MAYOR'S COMMITTEE ON COMMUNITY RENEWAL.* Prepared by Wilbur J. Thompson. Detroit, March 1966. 104 p.

Analysis and forecast of economic activity. Projections to 1970 and 1980: (1) Employment by detailed industry, based on local and metropolitan area trends and special analysis of major local industries and (2) retail trade employment for 3 subareas of Detroit, based on projected total metropolitan employment distributed in relation to projected sales shares.

Covers Detroit SMSA.

MINNESOTA

Aguar, Jyring, Whiteman, Moser, Inc., Duluth, Minnesota. Studies prepared for County of St. Louis.●

501. ST. LOUIS COUNTY ECONOMIC RESOURCES SURVEY AND ANALYSIS. Duluth, 1967. 20 p.

Inventory and forecasts of economic resources. Projects employment by broad industry group and labor force to 1985, based on past trends and population projections.

Covers St. Louis County.

502. ST. LOUIS COUNTY HUMAN RESOURCES SURVEY AND ANALYSIS.* 1967. 21 p.

Study of population. Projects population, based on 3 sets of assumptions. Projections serve as base for labor force projections in economic resources study above.

Covers St. Louis County.

American Hospital Association.

MANPOWER RESOURCES IN HOSPITALS--1966. See Multistate section, No. 801.

Henderson, James M.

NATIONAL GROWTH AND ECONOMIC CHANGE IN THE UPPER MIDWEST. ECONOMIC GROWTH AND ADJUSTMENT IN THE UPPER MIDWEST: 1960-1975: A SUPPLEMENT TO THE UPPER MIDWEST ECONOMIC STUDY. See Multistate section, Nos. 802 and 803.

Joint program for Land Use-Transportation Planning,● St. Paul, Minnesota.

503. INTERIM LABOR FORCE PROJECTIONS 1980 and 2000.* Information Bulletin No. 3. St. Paul, 1963. 11 p.

Labor force estimates for land use and transportation planning in Minneapolis-St. Paul area. Projects labor force by age and sex to the year 2000 by 5-year interval, based on Joint Program's population projections and Bureau of Labor Statistics labor force participation rates through 1975.

Covers Minneapolis-St. Paul SMSA.

Minnesota Department of Employment Security.•

504. HEALTH SERVICE SURVEY.* St. Paul, 1967. 77 p.

Projects supply and demand for 22 health service occupations through 1971, based on survey of medical and health institutions and data on graduates and enrollments from training institutions.

Covers State of Minnesota.

505. MINNESOTA'S MANPOWER 1960 TO 1975.* St. Paul, 1966. 37 p.

Study of labor supply. Projections: (1) Labor force by age and sex to 1975, based on Minnesota Health Department population estimates and (2) employment by broad industry and occupational group to 1975, based on past trends.

Covers Minneapolis-St. Paul SMSA and State of Minnesota.

National Planning Association.

ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR TWO HUNDRED AND TWENTY-FOUR METROPOLITAN AREAS. STATE PROJECTIONS TO 1975: A QUANTITATIVE ANALYSIS OF ECONOMIC AND DEMOGRAPHIC CHANGES. See Multistate section, Nos. 804 and 805.

North Star Research and Development Institute, Minneapolis, Minnesota. Studies prepared for the City of Minneapolis.• 1965.

506. ECONOMIC STUDY OF THE CITY OF MINNEAPOLIS.* 52 p.

Study to aid in economic development. Projects total employment and labor force by 5-year interval to 1985 and percent distribution of employment by industry sector with some breakdowns of employment distribution within sectors. Technical detail and numerical data in publication below.

Covers City of Minneapolis.

507. TECHNICAL APPENDIX TO THE ECONOMIC STUDY OF THE CITY OF MINNEAPOLIS. 306 p.

Inventory and forecasts of economic activity to provide data for city planning. Projections to 1970 and 1975: (1) Labor force by age and sex, based on population projections and National Planning Association participation rates and (2) employment by industry group, based on industry sector analysis.

Covers City of Minneapolis, Hennepin County, Minneapolis-St. Paul SMSA,and Suburban Hennepin County.

U. S. Bureau of Labor Statistics.

LABOR FORCE PROJECTIONS BY STATE, 1970--1980. See Multistate section, No. 807.

U. S. Outdoor Recreation Resources Review Commission.

PROJECTIONS TO THE YEARS 1976 AND 2000: ECONOMIC GROWTH, POPULATION, LABOR FORCE AND LEISURE AND TRANSPORTATION. See Multistate section, No. 808.

OHIO

601. Akron Metropolitan Area Transportation Study.●

ECONOMIC FORECAST. January 1968. 35 p.

Forecast of economic variables to serve as input in developing area transportation plan. Projections 1970-90 by 5-year interval: (1) Employment, total and for 8 manufacturing and 8 nonmanufacturing industries, based on trends and (2) labor force, based on employment projections.

Covers a study area which includes Akron, Cuyahoga Falls, Barberton, and several townships in the southwestern part of the Akron SMSA.

American Hospital Association.

MANPOWER RESOURCES IN HOSPITALS--1966. See Multistate section, No. 801.

Battelle Memoral Institute.

602. ECONOMIC DEVELOPMENT OF THE SPONSOR'S SERVICE AREA, 1960-1985. Prepared for Columbus and Southern Ohio Electric Company.● 3 parts. 1964. (Out of print.)

Employment projections to 1985.

Covers Columbus SMSA and adjacent areas.

Battelle Memorial Institute. (Cont'd)

603. LONG RANGE GROWTH POTENTIAL OF THE DAYTON POWER AND LIGHT COMPANY STUDY AREA (25 COUNTIES IN WEST CENTRAL OHIO). 3 parts. Prepared for Dayton Power and Light Company.• Columbus, Ohio, 1964. 164 p.

Inventory and forecasts of economic activity. Projections to 1985: (1) Labor force, based on Census Bureau population projections, (2) employment by broad industry group, based principally on past trends, and (3) employment for a number of manufacturing industries, based on past trends and survey of manufacturers.

Covers 25-county area including Dayton SMSA.

604. THE ECONOMIC GROWTH POTENTIAL OF THE AREA SERVED BY THE CINCINNATI GAS AND ELECTRIC COMPANY AND AFFILIATED COMPANIES. Prepared for Cincinnati Gas and Electric Company.• Columbus, Ohio, 1964. 138 p.

Inventory and forecasts of economic activity. Projections to 1985: (1) Labor force, based on population projections, (2) employment by major industry group, based on area trends and study of impact of technology on U. S. economy, (3) employment by major occupation, based on industry occupational matrix, and (4) employment for each of 12 manufacturing industries, based on past trends and survey of manufacturers.

Covers in most projections total 13-county area and the following county groups: metropolitan, sub-urban, and rural. Region includes the Cincinnati SMSA plus 6 other counties: Butler, Clinton, Brown, and Highland in Ohio and Grant and Pendleton in Kentucky.

Bowling Green University, Division of Business Research.•

605. THE ECONOMIC STRUCTURE OF NORTHWEST OHIO: ITS PROSPECTS FOR GROWTH OR DECLINE.* Prepared by Larry D. Singell. Bowling Green, Ohio, 1966. 28 p.

Study of economy of northwest Ohio. Projects employment by major industry group to 1975, based principally on past trends and national growth rates.

Covers 23-county area including Toledo and Lima SMSA's and Toledo and Lima SMSA's separately.

Burgess and Nible, Limited, Columbus, Ohio.

606. THE NORTHWEST OHIO WATER DEVELOPMENT PLAN: A COMPREHENSIVE PROGRAM FOR ALL PHASES OF WATER MANAGEMENT. Prepared for Ohio Department of Natural Resources, Water Commission.● Columbus, 1967. 299 p.

Study of regional growth potential in order to develop a water management program. Special attention to heavy water-using industry. Projects total employment and employment by broad industry group to 2006, based on relative shares methodology, population projections, and trends.

Covers 22-county area in northwest Ohio including 3 SMSA's: Toledo, Lorain, and Lima. Data separately for 6 subregions.

City Planning Associates, Inc., Youngstown-Mishawaka.

607. COMPREHENSIVE PLAN: LORAIN, OHIO. Community Development Program Report 6. Prepared for Community Development Committee of Lorain, Ohio. Elyria, Ohio, 1967. 250 p. Address: Mayor's Office, Lorain, Ohio.●

Study of population and economy. Projects labor force, total employment, and manufacturing employment to 1995, based on past trends.

Covers City and County of Lorain, Ohio.

608. LUCAS COUNTY COMMUNITY RENEWAL PROGRAM: ECONOMIC CONDITIONS AND TRENDS. Prepared for the County of Lucas.● Mishawaka, 1967. 38 p.

Study of economy. Projects labor force and employment by major industry group to 1985, based on national growth projections and area trends.

Covers Lucas County, Ohio, less Toledo.

609. LUCAS COUNTY COMMUNITY RENEWAL PROGRAM LABOR FORCE ANALYSIS.* Prepared for the County of Lucas.● Mishawaka, Indiana, 1966. 116 p.

Description of labor force and employment in Lucas County, Ohio, less Toledo. Serves as base for projections in Economic Conditions and Trends above.

Covers same area as publication above.

Cleveland Seven County Transportation Land Use Study, Cleveland, Ohio.●

610. COMPREHENSIVE TRANSPORTATION REPORT. (Publication scheduled for December 1968.)

Transportation and land use study. To include employment projections to 1990 by 5-year interval for 20 industry groups.

Covers same area as preliminary study below.

611. PRELIMINARY COMPREHENSIVE PLANNING REPORT. Cleveland, October 1967. 123 p.

Preliminary transportation and land use report. Projections of total employment by county: (1) Relative and absolute changes, 1960-1980 and 1990 (2) average annual rates of change and absolute change by 5-year interval to 1990.

Covers 7-county region: Cuyahoga, Geauga, Lake, Medina, Lorain, Summit, and Portage.

Hammer, Greene, Siler Associates, Chicago.

ECONOMIC BASE STUDY. See Indiana section, No. 204.

612. STEUBENVILLE-WEIRTON METROPOLITAN AREA: ECONOMIC BASE STUDY. To be prepared for Steubenville-Weirton Area Transportation Study● and Jefferson County, Ohio Regional Planning Commission. (Scheduled for publication late 1968.)

Employment by industry for Steubenville, Ohio-Weirton, West Virginia SMSA.

To cover Steubenville Urbanized Area (parts of Jefferson County, Ohio, and 2 West Virginia counties) or portions thereof.

Howard, Needles, Tammen, and Bergendoff, Kansas City, Missouri.

613. THE LIMA-ALLEN COUNTY AREA, OHIO, COMPREHENSIVE TRANSPORTATION AND DEVELOPMENT PLAN: ECONOMY:TECHNICAL STUDY NO.2. GENERAL TRENDS AND FORECASTS.* Prepared for Lima-Allen County Regional Planning Commission.● Kansas City, 1966. 102 p.

Inventory and forecasts of economic activities. Projections to 1990 by 5-year interval: (1) Labor force by sex, based on population projections and (2) employment by major industry group, based on sector analysis and national growth trends.

Howard, Needles, Tammen, and Bergendoff, Kansas City, Missouri. (Cont'd)

Covers City of Lima, Lima Study Area, and Lima SMSA.

National Planning Association.

ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR TWO HUNDRED AND TWENTY-FOUR METROPOLITAN AREAS. STATE PROJECTIONS TO 1975: A QUANTITATIVE ANALYSIS OF ECONOMIC AND DEMOGRAPHIC CHANGES. See Multi-state section, Nos. 804 and 805.

Ohio Bureau of Employment Services, Division of Research and Statistics.●

614. MANPOWER IN OHIO, 1960-1970.* Columbus, 1963. 61 p.

Study of manpower resources in Ohio. Projections to 1970: (1) Labor force by age and sex, based on population projections and (2) employment by occupation and industry to 1970, based on past trends.

Covers State of Ohio.

Ohio-Kentucky-Indiana Regional Transportation and Development Plan.●

615. Economic base study (title uncertain). (Scheduled for publication 1968.)

Inventory and forecasts of economic activity. Employment projections to 1990.

To cover the Hamilton Urbanized Area (an area in Butler County primarily populated by the residents of Hamilton) or subareas thereof.

Ohio State University, Bureau of Business Research.●

616. THE COLUMBUS AREA ECONOMY: STRUCTURE AND GROWTH, 1950 TO 1985.* 3 Vol's. Columbus, Ohio, 1966.

Study for the Comprehensive Regional Plan of Columbus and Franklin County, Ohio. Projections are by 5-year interval to 1985.

Volumes with manpower emphasis:

Vol. I. Employment and Value Added by Manufacture. 466 p.

Ohio State University, Bureau of Business Research.• (Cont'd)

Employment projections for 33 industry groups on 3 levels, based on several techniques, including national projections, area trends, input-output analysis, survey of manufacturers, and productivity measures. Employment projections underlie all the projections of the study.

Vol. III. Population and Labor Force. 95 p.

Population and labor force projections by age, race, and sex, based on employment projections.

Covers Franklin County (part of Columbus SMSA).

Regional Planning Commission, Cleveland, Cuyahoga County, Ohio.

617. PEOPLE AND THEIR HOMES: PROJECTIONS FOR CUYAHOGA COUNTY--1980.* Cleveland, 1964. 114 p. Address: Cleveland-Seven County Transportation-Land Use Study.•

Revision of data published in 1959. Projections to 1970 and 1980: (1) Labor force by sex, based on population projections and (2) manufacturing and nonmanufacturing employment.

Covers Cuyahoga County (which includes the City of Cleveland).

Spindletop Research, Inc.

ECONOMIC DEVELOPMENT IN THE OHIO RIVER VALLEY REGION. See Multistate section, No. 806.

Stark County Regional Planning Commission.•

618. STARK COUNTY, OHIO--ECONOMIC BASE STUDY. Canton, Ohio, 1960. 225 p.

Inventory and forecasts of economic activity. Projections to 1975: (1) Total employment, based on popultion estimates and (2) employment by broad industry group, based on sector analysis and survey of local manufacturers.

Covers Stark County (Canton SMSA).

619. STARK COUNTY, OHIO--ROOM FOR INDUSTRY.* Canton, Ohio, 1964. 66 p.

Inventory and forecast of development potential of manufacturing activity. Extension of 1960 study listed below using more current data. Projections for 1970 and 1980: (1) Labor force by sex, based on projected participation rates and

Stark County Regional Planning Commission.• (Cont'd)

population, (2) total employment and unemployment, based on population projections, and (3) manufacturing employment, based on expected ratio of manufacturing employment to total employment.

Covers Stark County (Canton SMSA).

Tri-County Regional Planning Commission.•

620. EMPLOYMENT CENTERS. Akron, Ohio, 1964. 58 p., plus appendices. (Out of print.)

Inventory of employment. Projects total employment to 1970, based on various growth rates.

Covers Summit, Medina, and Portage Counties.

621. POPULATION AND LABOR FORCE. Regional Report No. 28. Akron, Ohio, 1964. 103 p.

Projections of social and economic characteristics of the population. Projects labor force by age to 1970 and 1980, based on population projections and national and local trends in participation rates.

Covers Summit, Medina, and Portage Counties combined.

University of Toledo Business Research Center.•

622. A SURVEY OF ECONOMIC ACTIVITY IN THE TOLEDO REGIONAL AREA AND A FORECAST TO 1970 AND TO 1985. Prepared for Toledo Regional Plan for Action. Toledo, Ohio, 1965. 149 p.

Inventory and forecasts of economic activities. Projections: (1) Labor force to 1970 and 1985, based on population projections and (2) employment to 1970 and 1985 by major industry group, based principally on step-down apportionment and area trends.

Covers Lucas County (which includes City of Toledo) and selected parts of Wood County, Ohio, and Monroe County, Michigan combined; Toledo SMSA; and Lucas County.

U. S. Bureau of Labor Statistics.

LABOR FORCE PROJECTIONS BY STATE, 1970--1980. See Multistate section, No. 807.

U. S. Outdoor Recreation Resources Review Commission.

PROJECTIONS TO THE YEARS 1976 AND 2000: ECONOMIC GROWTH, POPULATION, LABOR FORCE AND LEISURE AND TRANSPORTATION. See Multistate section, No. 808.

WISCONSIN

American Hospital Association.

MANPOWER RESOURCES IN HOSPITALS-- 1966. See Multistate section, No. 801.

Barton-Aschman Associates, Chicago.

701. COMPREHENSIVE PLANNING REPORT FOR BROWN COUNTY: POPULATION AND ECONOMIC ANALYSIS. Prepared for Brown County Regional Planning Commission. Green Bay, Wisconsin, December 1965. 73 p. (Out of print.)

Economic base study and sector analysis. Projects total employment to 1970 and 1985, based on past trends and share of state and national economic growth.

Covers Brown County (Green Bay SMSA).

Hammer, Greene, Siler Associates.

ECONOMIC BASE STUDY. See Indiana section, No. 204.

Henderson, James M.

NATIONAL GROWTH AND ECONOMIC CHANGE IN THE UPPER MIDWEST. ECONOMIC GROWTH AND ADJUSTMENT IN THE UPPER MIDWEST: 1960-1975: A SUPPLEMENT TO THE UPPER MIDWEST ECONOMIC STUDY. See Multistate section, Nos. 802 and 803.

National Planning Association.

ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR TWO HUNDRED AND TWENTY-FOUR METROPOLITAN AREAS. STATE PROJECTIONS TO 1975: A QUANTITATIVE ANALYSIS OF ECONOMIC AND DEMOGRAPHIC CHANGES. See Multistate section, Nos. 804 and 805.

Real Estate Research Corporation, Chicago.

702. LAND ABSORPTION STUDY: CITY OF MILWAUKEE, WISCONSIN COMMUNITY RENEWAL PROGRAM. Prepared for City of Milwaukee, Department of Development. January 1964. 129 p.

Employment projections for broad industry groups to 1980, based on best estimate using a number of other studies plus discussions with area businessmen.

Covers Milwaukee SMSA.

Southeastern Wisconsin Regional Planning Commission.

703. LAND-USE TRANSPORTATION STUDY PLANNING REPORT NO. 7. 3 Vol's. Waukesha, Wisconsin.

Volumes with data related to manpower projections:

Vol. I. Inventory Findings. May 1965. 193 p.

Presents background materials which serve as basis for projections in Vol. II below.

Vol. II. Forecasts and Alternative Plans 1990. June 1966. 256 p.

Projects employment, total and by major industry, to 1970, 1980,and 1990, based on synthesis of results from a number of techniques, including industry sector analysis, trends, input-output analysis, and regional activity simulation model.

Covers the following counties both separately and as a group: Kenosha, Milwaukee, Ozaukee, Racine, Walworth, Washington, and Waukesha.

U.S. Bureau of Labor Statistics.

LABOR FORCE PROJECTIONS BY STATE, 1970--1980. See Multistate section, No. 807.

U.S. Outdoor Recreation Resources Review Commission.

PROJECTIONS TO THE YEARS 1976 AND 2000: ECONOMIC GROWTH, POPULATION, LABOR FORCE AND LEISURE AND TRANSPORTATION. See Multistate section, No. 808.

University of Wisconsin, Graduate School of Business, Bureau of Business Research.

704. WISCONSIN'S ECONOMY IN 1975: WISCONSIN'S ECONOMIC GROWTH SINCE WORLD WAR II AND PROJECTIONS FOR 1975.* Prepared by Jon G. Udell, William A. Strang, and Gene A. Gohlke. Madison, Wisconsin, December 1967. 107 p.

Analysis of post-war economic history in the State and projections of economic future. Projections for 1975: (1) Employment in State's 15 major manufacturing industry divisions, based on projections of productivity growth and net value added and (2) employment in 9 major industry groups, based on anticipated changes in demand and production and on projected productivity trends.

Covers State of Wisconsin.

Wisconsin Department of Resource Development.

705. ECONOMIC BASE STUDY: FOX RIVER BASIN WISCONSIN.* Prepared for U.S. Army Engineer District, Chicago, Corps of Engineers. Madison, Wisconsin, December 1964. 332 p.

Inventory and projections of economic activity. Projections by 10-year interval to year 2020: (1) Labor force, based on area and national trends and (2) employment for 15 industry groups, based on industry sector analysis and trends.

Covers State of Wisconsin, 13 northeastern Wisconsin counties combined, 3 subareas, and 5 selected counties separately: Brown, Fond du Lac, Langlade, Outagamie, and Winnebago.

706. WISCONSIN DEVELOPMENT SERIES (23 volume series which includes reports on each of 7 state planning areas.) Address: Wisconsin Department of Resource Development.

THE ECONOMY OF EAST CENTRAL WISCONSIN.*	1967.	437 p.	
THE ECONOMY OF NORTHEASTERN WISCONSIN.	1966.	322 p.	
THE ECONOMY OF NORTHWESTERN WISCONSIN.*	1967.	229 p.	(Out of print.)
THE ECONOMY OF SOUTHEASTERN WISCONSIN.	1967.	458 p.	(Out of print.)
THE ECONOMY OF SOUTHWESTERN WISCONSIN.*	1966.	314 p.	
THE ECONOMY OF CENTRAL WISCONSIN.*	1966.	336 p.	
THE ECONOMY OF WEST CENTRAL WISCONSIN.*	1967.	317 p.	

Each volume includes an analysis of population and industry and programs for the economic development of the area. Projections (most to 1980 by 5-year interval): (1) Employment by industry, based on industry analyses, one common source of which was

Wisconsin Department of Resource Development. (Cont'd)

interviewing of business and community leaders, (2) total employment, usually based on assumption concerning a stable or changing ratio of employment in forecast industries to total area employment, (3) some labor force projections, based on employment projections and assumptions concerning behavior of unemployment rate, and (4) some projections of employment and unemployment without planned action and with various programs of planned action.

Covers 7 regions of the State of Wisconsin, as indicated by titles of studies.

Wolf River Basin Regional Planning Commission.

707. WOLF RIVER COMPREHENSIVE PLANNING PROGRAM.* Prepared with assistance of Wisconsin Department of Resource Development.● Madison, February 1966. 329 p.

Inventory and forecasts of land use, population, and economy and description of Development Plan and its implementation. Projects employment, total and for major industries, to 1990, based principally on trends and industry sector analysis.

Covers 8-county area combined: Forest, Langlade, Menominee, Shawano, Waupaca, Outagamie, Waushara, and Winnebago.

MULTISTATE

American Hospital Association.●

801. MANPOWER RESOURCES IN HOSPITALS--1966.* Chicago, 1967. 75 p. (Summary report of a survey conducted by the Bureau of Health Manpower of the Public Health Service, Department of Health, Education, and Welfare and the American Hospital Association.)

Present staff and additional current needs for hospital personnel, based on results of a mail survey of membership of the American Hospital Association.

Covers U.S. by state.

Hammer, Greene, Siler Associates, Washington, D.C.

See Indiana section, No. 204.

Henderson, James M., and Anne O. Krueger. (Publications included in the Upper Midwest Economic Study prepared for the Upper Midwest Research and Development Council• and co-sponsored by the Council and the University of Michigan.)

802. NATIONAL GROWTH AND ECONOMIC CHANGE IN THE UPPER MIDWEST. Minneapolis, Minnesota, 1965. 231 p. (Final Report of the Upper Midwest Economic Study.)

Analysis of economic growth and change in the Upper Midwest from 1950 to 1960, projections to 1975, and discussions of alternative policies that might stimulate growth in the area. Projects employment to 1975 by industry, based on extensive sector analysis and National Planning Association projections.

Covers each of the following: Minnesota, Montana, North Dakota, South Dakota, northwestern Wisconsin, and upper Michigan.

803. ECONOMIC GROWTH AND ADJUSTMENT IN THE UPPER MIDWEST: 1960-1975: A SUPPLEMENT TO THE UPPER MIDWEST ECONOMIC STUDY.* Prepared with the assistance of R. Ramanathan. Minneapolis, Minnesota, January 1967. 65 p.

Supplements the previous volume by updating some of the information and projections for Montana, North Dakota, and Minnesota in the light of higher manufacturing productivity growth rates, lower birth rates, etc. Employment projections for 31 industry classifications in the 3 states.

Covers Minnesota, Montana, and the Dakotas.

National Planning Association.•

804. ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR TWO-HUNDRED AND TWENTY-FOUR METROPOLITAN AREAS. No. 67--R-1. Washington, D. C., May 1967. (Fourth report in a continuing research series on metropolitan areas.)

Vol. I. Industry Employment in Two-Hundred and Twenty-Four Metropolitan Areas. 240 p.

Vol. II. Industry Employment Distribution Among Two-Hundred and Twenty-Four Metropolitan Areas. 557 p.

Vol.III. Projections to 1975: Industry Employment, Population, and Personal Income for All Metropolitan Areas. 884 p.

Technique is impact analysis: Projections of trends in a metropolitan area are based on the area's share of activity in a broader

National Planning Association.• (Cont'd)

"analytical" region. Industry employment is projected using trends in employment in basic (export) industries and local industries.

Covers 224 metropolitan areas in all U. S. (presumably SMSA's).

Three preceding reports:

(1) METROPOLITAN AREA INDUSTRY EMPLOYMENT AND POPULATION ESTIMATES, 1950, 1957, 1960, 1962. Regional Economic Projections Series, Report No. 64-VI. Washington, D. C., August 1965. (Revised.)

(2) THE ECONOMIES OF FIFTEEN METROPOLITAN AREAS: HISTORICAL AND PROJECTED EMPLOYMENT, OUTPUT, POPULATION, AND PERSONAL INCOME, 1950, 1957, 1960, 1962, AND 1975. Regional Economic Projections Series, Report No. 65-III. Washington, D.C., November 1965.

(3) ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR EIGHTY-TWO METROPOLITAN AREAS. Regional Economic Projections Series, Report No. 66--R-1. Washington, D.C., May 1966.

805. STATE PROJECTIONS TO 1975: A QUANTITATIVE ANALYSIS OF ECONOMIC AND DEMOGRAPHIC CHANGES. Regional Economic Projections Series, Report No. 65-2. Washington, D.C. 1965. 270 p.

Projects labor force, employment, income, and output to 1975. Techniques include growth and lag industry analysis, export base theory, demography, and projected labor force participation rates.

Covers states in U.S.

Spindletop Research, Inc., Lexington, Kentucky.•

806. ECONOMIC DEVELOPMENT IN THE OHIO RIVER VALLEY REGION.* Prepared by Gene A. Bramlett and Wilburn J. Pratt. Prepared for the Kentucky Department of Commerce. Lexington, April 1964. 278 p.

Inventory of economic activity in region and forecasts of economic growth potentials. Projects employment, total and for 22 industry groups, to 1980, based on 2 sets of area trends and analyses. Employment projections serve as base for population projections.

Covers a region composed of 85 counties along both sides of the Ohio River from Beaver, Pennsylvania to New Madrid County, Missouri. Other states with areas in the region are West Virginia,

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Spindletop Research, Inc. (Cont'd)

Ohio, Kentucky, Indiana, and Illinois. Projections for the following subareas: Huntington-Ashland-Portsmouth Area (Boyd, Carter, Greenup, and Lewis Counties in Kentucky; Gallia, Lawrence, and Scioto Counties in Ohio; and some counties in West Virginia), Cincinnati Industrial Area (Clermont and Hamilton Counties in Ohio; Boone, Campbell, and Kenton Counties in Kentucky and Dearborn County in Indiana), Outer Bluegrass Area (Trimble, Carroll, Gallatin, Grant, Pendleton, Bracken, and Mason Counties, all in Kentucky), Louisville Industrial Area (Bullitt, Hardin, Jefferson, Meade, Oldham, and Shelby Counties in Kentucky; Clark and Floyd Counties in Indiana), Evansville Industrial Area (Vanderburgh, Warrick, and Spencer Counties in Indiana; Daviess and Henderson Counties in Kentucky), West Kentucky Coal Field (Livingston, Crittenden, Union, Hancock, and Breckinridge Counties, all in Kentucky), and Jackson Purchase (Fulton, Hickman, Carlisle, Ballard, McCracken, and Marshall Counties, all in Kentucky).

U.S. Bureau of Labor Statistics.•

807. LABOR FORCE PROJECTIONS BY STATE, 1970--1980.* Prepared by Denis F. Johnston and George R. Methee. Special Labor Force Report No. 74. Reprint No. 2509. 78 p. (From the Monthly Labor Review, October 1966. p. 1098-1104.)

Projects total labor force by state and region (North Central Region included), 1970 and 1980, based on trends in national and state labor force participation rates and projected future rates and on projections of state residential population by age.

Covers United States by state and region.

U.S. Outdoor Recreation Resources Review Commission.

808. PROJECTIONS TO THE YEARS 1976 AND 2000: ECONOMIC GROWTH, POPULATION, LABOR FORCE AND LEISURE AND TRANSPORTATION.* Study Report 23. Washington, D.C., 1962. 434 p. Address: U. S. Government Printing Office,• Superintendent of Documents.

Projections for 1976 (some for 2000 also): (1) Labor force by state and selected area, (2) employment and unemployment ratios by state, (3) occupational employment by state and selected area, (4) nonagricultural wage and salary worker employment for major

U.S. Outdoor Recreation Resources Review Commission. (Cont'd)

industry divisions by state, selected area, and geographic division, and (5) 2-digit SIC code manufacturing industry employment by region and civilian employment by state. Methodology includes use of regression techniques to project employment, adjusted by both review of factors affecting employment and trends in (a) hours worked and paid, (b) reduction in hours worked, and (c) increased leave adjusted by industry occupational patterns., etc.

Covers U.S. states and areas.

APPENDICES

APPENDIX A

SOURCES OF CURRENT MANPOWER PROJECTIONS MADE BY U.S. BUREAU OF LABOR STATISTICS

MISCELLANEOUS

America's Industrial and Occupational Manpower Requirements: 1964-75. Appendix Volume 1. *THE OUTLOOK FOR TECHNOLOGICAL CHANGE AND EMPLOYMENT 1966.* p. 1-187. ($2.25.) Prepared for the National Commission on Technology, Automation, and Economic Progress. (Work on projections to 1985 in process.)

HEALTH MANPOWER 1966-75 -- A STUDY OF REQUIREMENTS AND SUPPLY. BLS Report No. 323. June 1967. 50 p.

MANPOWER PROJECTIONS -- SELECTED REFERENCES. April 1967. 18 p. (The Chicago Regional Office of the Bureau of Labor Statistics has a limited supply.)

REPRINTS FROM THE MONTHLY LABOR REVIEW

Special Labor Force Reports

LABOR FORCE PROJECTIONS FOR 1970-1980. Sophia Cooper and Denis F. Johnston. Special Labor Force Report No. 49. Reprint No. 2455. (From Vol. 88, No. 2, February 1965 issue.) 12 p. Free.

LABOR FORCE PROJECTIONS BY COLOR, 1970-1980. Sophia Cooper and Denis F. Johnston. Special Labor Force Report No. 73. Reprint No. 2501 (From the September 1966 issue.) 7 p. Free.

LABOR FORCE PROJECTIONS BY STATE, 1970-1980. Denis F. Johnston and George R. Methee. Special Labor Force Report No. 74. Reprint No. 2509. (From the October 1966 issue.) 78 p. Free. (National projections will provide basis for revised state projections.)

> Revised data for 1980 and projections for 1985 by age, color, and sex will be available late 1968-early 1969. The revised national projections will serve as the framework for metropolitan area labor force projections which will be issued by the Bureau for the first time.

Other MLR Reprints

ESTIMATED NEED FOR SKILLED WORKERS, 1965-75. Allan F. Salt. Reprint No. 2491. (From the April 1966 issue.) 7 p. Free.

Other MLR Reprints (Cont'd)

TECHNOLOGICAL DEVELOPMENTS AND THEIR EFFECTS UPON HEALTH MANPOWER. Herman M. Sturm. Reprint No. 2516. (From the January 1967 issue.) 8 p. Free.

TECHNICAL NOTE: PROJECTIONS OF MANPOWER SUPPLY IN A SPECIFIC OCCUPATION. Neal Rosenthal. Reprint No. 2512. (From the November 1966 issue.) 5 p. Free.

FACTORS AFFECTING CHANGES IN INDUSTRY EMPLOYMENT. Ronald E. Kulscher and Eva E. Jacobs. Reprint No. 2529. (From the April 1967 issue.) 7 p. Free.

CHANGING MANPOWER REQUIREMENTS IN BANKING. Rose Wiener. Reprint No. 2401. (From the September 1962 issue.) 7 p. Free.

EMPLOYMENT AND MANPOWER BULLETINS

EMPLOYMENT REQUIREMENTS AND CHANGING OCCUPATIONAL STRUCTURE IN CIVIL AVIATION. Bul. No. 1367. June 1964. 55 p. (40 cents.) (Revised data scheduled for 1968 publication.)

COUNSELOR'S GUIDE TO OCCUPATIONAL AND OTHER MANPOWER INFORMATION - AN ANNOTATED BIBLIOGRAPHY OF SELECTED GOVERNMENT PUBLICATIONS. Bul. No. 1421. November 1964. 87 p. (50 cents.)

PROJECTIONS 1970: INTERINDUSTRY RELATIONSHIPS, POTENTIAL DEMAND, EMPLOYMENT. Bul. No. 1536. 1967. 155 p. ($1.00.)

TECHNICIAN MANPOWER - REQUIREMENTS, RESOURCES AND TRAINING NEEDS. Bul. No. 1512. June 1966. 111 p. (60 cents.)

TECHNOLOGICAL TRENDS IN MAJOR AMERICAN INDUSTRIES. Bul. No. 1474. February 1966. 267 p. ($1.50.)

OCCUPATIONAL OUTLOOK PUBLICATIONS

OCCUPATIONAL OUTLOOK HANDBOOK, 1968-1969 edition. Bul. No. 1550. 1968. 761 p. (Revised every 2 years.) ($4.25.)

OCCUPATIONAL OUTLOOK QUARTERLY. (Published 4 times during the school year, supplements the *HANDBOOK* above with up-to-date manpower information.) (Annual subscriptions $1.75 foreign, $1.25 domestic; individual issues 35 cents.)

Reprints from the Occupational Outlook Quarterly

A NEW LOOK AT MANPOWER NEEDS IN TEACHING. **Maxine G. Stewart. (From the May 1964 issue.) 4 p.**

EMPLOYMENT OPPORTUNITIES FOR SKILLED WORKERS. **Allan Salt. (From the December 1965 issue.) 8 p.**

APPENDIX B

SELECTED SOURCES OF FEDERAL GOVERNMENT AND OTHER MANPOWER AND POPULATION PROJECTIONS

U.S. DEPARTMENT OF LABOR

PROSPECTIVE LABOR FORCE DEVELOPMENTS. Manpower Report of the President and a Report on Manpower Requirements, Resources Utilization, and Training. Transmitted to the Congress April 1968 by the U.S. Department of Labor. p. 189-190.

OCCUPATIONAL SHORTAGES AND TRAINING NEEDS: PROFESSIONAL AND SUPPORTING PERSONNEL. Manpower Report of the President and a Report on Manpower Requirements, Resources, Utilization, and Training. Transmitted to the Congress April 1967 by the U.S. Department of Labor. p. 165-194.

SYMPOSIUM ON FORECASTING OF MANPOWER REQUIREMENTS. Conducted in Washington, D.C., June 23-25, 1966 by the International Manpower Institute under Sponsorship of Agency for International Development and U.S. Department of Labor. Washington, D.C., 1966. 93 p.

Manpower Administration

MANPOWER DEVELOPMENTS AND OUTLOOK IN THE COMPUTING AND ACCOUNTING MACHINE INDUSTRY. Industry Manpower Surveys, No. 114. Reprint from Area Trends in Employment and Unemployment, April 1968. Washington, D. C., 1968.

MANPOWER PROJECTIONS: AN APPRAISAL AND A PLAN OF ACTION. Report of the Working Group on Manpower Projections to the President's Committee on Manpower, Office of Manpower Policy, Evaluation, and Research, Manpower Administration. Washington, D.C., August 1967. 58 p.

MANPOWER RESEARCH PROJECTS. Sponsored by the U.S. Department of Labor, Manpower Administration. Washington, D.C., September 1967. 196 p.

Manpower Research Bulletins:

TECHNOLOGY AND MANPOWER IN DESIGN AND DRAFTING 1965-75. No. 12. Washington, D.C., October 1966. 39 p.

TECHNOLOGY AND MANPOWER IN THE TELEPHONE INDUSTRY 1965-75. No. 13. Washington, D.D., November 1966. 53 p.

TECHNOLOGY AND MANPOWER IN THE HEALTH SERVICE INDUSTRY 1965-75. No. 14. Washington, D.C., May 1967. 109 p.

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U.S. DEPARTMENT OF COMMERCE

Bureau of the Census

INVENTORY OF STATE AND LOCAL AGENCIES PREPARING POPULATION ESTIMATES: SURVEY OF 1965. Current Population Reports Series P-25, No. 328. Washington, D.C., March 8, 1966. 25 p. (Sources of population estimates and projections for SMSA's, counties, cities.)

PROJECTIONS OF THE POPULATION OF THE UNITED STATES BY AGE, SEX, AND COLOR TO 1990, WITH EXTENSIONS OF POPULATION BY AGE AND SEX TO 2015. Current Population Reports Series P-25, No. 381. Washington, D.C., 1967. 124 p.

REVISED PROJECTIONS OF THE POPULATION OF STATES, 1970 TO 1985. Current Population Reports Series P-25, No. 375. Washington, D.C., October 3, 1967. 110 p.

Population projections for large metropolitan areas. (Title uncertain.) Scheduled for publication in late 1968 or early 1969.

Economic Development Administration

A BIBLIOGRAPHY OF RESOURCE MATERIALS IN THE FIELD OF REGIONAL ECONOMICAL DEVELOPMENT. Prepared by the Regional Economic Development Institute, Incorporated. Washington, D.C., 1966. 107 p.

U.S. DEPARTMENT OF TRANSPORTATION

URBANIZED AREA TRANSPORTATION PLANNING PROGRAMS. Prepared by the Department's Federal Highway Administration, Bureau of Public Roads, Office of Planning. Washington, D.C., May 1968. 50 p. (Lists the transportation planning programs carried on cooperatively by state highway departments and affected local governing bodies in the 233 areas affected by the planning requirements of the Federal-Aid Highway Act of 1962.)

U.S. CIVIL SERVICE COMMISSION

FEDERAL WORKFORCE OUTLOOK - FISCAL YEARS 1967 - 1970. Washington, D.C., May 1967. 11 p.

RUTGERS UNIVERSITY, INSTITUTE OF MANAGEMENT AND LABOR RELATIONS

MANPOWER FORECASTING THROUGH THE OCCUPATIONAL NEEDS SURVEY. September 1966. 40 p.

NATIONAL SCIENCE FOUNDATION

SCIENCE AND ENGINEERING STAFF IN UNIVERSITIES AND COLLEGES. NSF 67-11. Washington, D.C., May 1967. 25 p.

SCIENTISTS, ENGINEERS, AND TECHNICIANS IN THE 1960's--REQUIREMENTS AND SUPPLY. Prepared for the National Science Foundation by the U.S. Bureau of Labor Statistics. NSF 63-64. 1964. 68 p.

NATIONAL PLANNING ASSOCIATION

NATIONAL ECONOMIC PROJECTIONS TO 1977-78. National Econonic Projections Series, Report No. 67-N-1. Washington, D.C., May 1967. 140 p.

STATE PROJECTIONS TO 1975: A QUANTITATIVE ANALYSIS OF ECONOMIC AND DEMOGRAPHIC CHANGES. Regional Economic Projections Series, Report No. 65-2. Washington, D.C. 1965. 270 p.

APPENDIX C

SOURCES OF METHODOLOGY FOR MAKING MANPOWER PROJECTIONS

AMERICAN STATISTICAL ASSOCIATION AND THE CALIFORNIA COMMISSION ON MANPOWER, AUTOMATION, AND TECHNOLOGY

METHODOLOGY AND TECHNIQUES FOR LONG-RANGE PROJECTIONS OF POPULATION, LABOR FORCE, AND EMPLOYMENT. State of California Report 65-3. July 1965. 241 p. (Proceedings of a conference sponsored by the author organizations.)

Report containing papers discussing methodology and techniques for state and area industry projections.

ILLINOIS DIVISION OF HIGHWAYS, BUREAU OF PLANNING

URBANIZED AREA TRANSPORTATION STUDIES

POPULATION INVENTORY INSTRUCTION MANUAL. 1965. 42 p.
LAND USE INVENTORY INSTRUCTION MANUAL. 1965. 24 p.
INVENTORY OF ECONOMIC FACTORS AFFECTING DEVELOPMENT INSTRUCTION MANUAL. 1965. 63 p.

Manuals of procedure for conducting inventories of population, land use, and economic studies, respectively, to assist those concerned with the urbanized area transportation planning process required under the Federal-Aid Highway Act of 1962. Sample forms for collecting and summarizing data, data sources, and suggested readings are included.

POPULATION, ECONOMIC, AND LAND USE FORECAST TECHNIQUES. 1965. 138 p.

Emphasizes the interrelationships among population, economic, and land use elements of community growth by defining the forecast of these elements as a single combination phase of the transportation study. Tables designed to facilitate an organized presentation of the end product are included. Source materials and suggested readings are appended.

In addition to the above sources, the Bureau of Labor Statistics' Division of Manpower and Occupational Outlook is preparing a guide to help local analysts develop long range projections of state and area industry based on techniques the Bureau has developed over the years. This publication, tentatively titled Tomorrow's Manpower Needs: National Manpower Projections and a Guide to Their Use as a Tool in Developing State and Area Manpower Projections, is in preparation. The Department of Labor's Bureau of Employment Security is preparing a companion volume specifically for use by state employment security agencies.

APPENDIX D

ADDRESSES OF ORGANIZATIONS FOR INQUIRIES CONCERNING PUBLICATIONS

Akron Metropolitan Area Transportation Study
405 Municipal Building
Akron, Ohio 44308

American Hospital Association
840 North Lake Shore Drive
Chicago, Illinois 60611

Beckman, Swenson, and Associates
9800 McKnight Road
Pittsburgh, Pennsylvania 15237

Benton Planning Commission
City of Benton
Benton, Kentucky 42025

Bowling Green State University
Division of Business Research
Bowling Green, Ohio 43402

Brown County Regional Planning Commission
City Hall
Green Bay, Wisconsin 54305

Chicago Area Transportation Study
Division of Highways, District 1
595 South State Street
Elgin, Illinois 60120

Chicago Association of Commerce and Industry
30 West Monroe Street
Chicago, Illinois 60603

Cincinnati Gas and Electric Company
Industrial Relations Department
149 East Fourth Street
Cincinnati, Ohio 45202

City County Planning Commission
227 North Upper
Lexington, Kentucky 40507

City of Milwaukee
Department of Development
155 East Kilbourne Avenue
Milwaukee, Wisconsin 53202

City of Minneapolis
Planning and Development
501 City Hall
Minneapolis, Minnesota 55415

City of Moline
Planning and Zoning Department
Moline, Illinois 61265

Cleveland Seven County Transportation Land Use Study
Regional Planning Commission
415 The Arcade
Cleveland, Ohio 44114

Columbus and Southern Ohio Electric Company
215 North Front Street
Columbus, Ohio 43215

Copley International Corporation
7776 Ivanhoe Avenue
(P.O. Box 1530)
La Jolla, California 92037

County of Lucas
Spitzer Building
Toledo, Ohio 43604

County of St. Louis
Planning and Zoning Division
St. Louis County Court House
Duluth, Minnesota 55802

Dayton Power and Light Company
Gas and Electric Building
25 North Main Street
Dayton, Ohio 45401

Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

Fort Wayne Redevelopment Commission
425 South Calhoun
Fort Wayne, Indiana 46802

Fox River Valley Transportation Study
(Also called Aurora Transportation Study)
Division of Highways, District 1
595 South State Street
Elgin, Illinois 60120

Hammer and Company Associates
1413 K Street, Northwest
Washington, D.C. 20005

Illinois Department of Business and Economic Development
222 South College
Springfield, Illinois 62704

Illinois Department of Labor*
Bureau of Employment Security
165 North Canal Street
Room 200
Chicago, Illinois 60606

Indiana Employment Security Division*
Research and Statistics Section
10 North Senate Avenue
Indianapolis, Indiana 46204

Indianapolis Regional Transportation and Development Study
City-County Building -Room 2360
Indianapolis, Indiana 46204

Joint Program for Land Use Transportation Planning
220 Griggs-Midway Building
St. Paul, Minnesota 55104

Joliet Area Transportation Study
Division of Highways, District 1
595 South State Street
Elgin, Illinois 60120

Kalamazoo Metropolitan County Planning Commission
County Building
227 West Michigan Avenue
Kalamazoo, Michigan 49006

Kentucky Bureau of Employment Security*
Department of Economic Security
New Capitol Annex Building
Frankfort, Kentucky, 40601

Kentucky Department of Commerce
Division of Community Planning and Development
Frankfort, Kentucky 40601

Lake County Transportation Study
Division of Highways, District 1
595 South State Street
Elgin, Illinois 60120

Lake-Porter County Regional Transportation and Planning Commission
Lake County Court House
Crown Point, Indiana 46307

Lima-Allen County Regional Planning Commission
204-205 Dominion Building
Lima, Ohio 45802

Mayor's Office
City Hall Building
Lorain, Ohio 44000

Michigan Department of Labor
Employment Security Commission*
7310 Woodward Avenue
Detroit, Michigan 48202

Michigan State University
Bureau of Business Economic Research
East Lansing, Michigan 48823

*See footnote at end of appendix.

Minnesota Department of
Employment Security*
369 Cedar Street
St. Paul, Minnesota 55101

National Planning Association
1606 New Hampshire Avenue, N.W.
Washington, D.C. 20009

Northeastern Illinois Planning
Commission
400 West Madison Street
Chicago, Illinois 60606

Ohio Bureau of Employment
Services*
145 South Front Street
P.O. Box 1618
Columbus, Ohio 43216

Ohio Department of Natural
Resources
Water Commission
65 South Front Street
Columbus, Ohio 43215

Ohio-Kentucky-Indiana Regional
Transportation and Development Plan
285 Central Trust Building
Cincinnati, Ohio 45202

Ohio State University
Bureau of Business Research
Columbus, Ohio 43210

Population Research and Training Center and Chicago
Community Inventory
University of Chicago
Chicago, Illinois 60637

Purdue University
Agricultural Experiment Station
Lafayette, Indiana 47907

Purdue University
School of Technology
Lafayette, Indiana 47907

Rock Island County Regional
Planning Commission
Court House
Rock Island, Illinois 61201

Southeastern Wisconsin Regional
Planning Commission
916 North East Avenue
Waukesha, Wisconsin 53186

Southwestern Illinois Planning
Commission
121 A West Main Street
Collinsville, Illinois 62234

Spindletop Research, Incorporated
Spindletop Research Center
Lexington, Kentucky 40505

Stark County Regional Planning
Commission
624 County Office Building
207 West Tuscarawas Street
Canton, Ohio 44702

Steubenville-Weirton Area
Transportation Study
Jefferson County Regional
Planning Commission
227 North Fifth Street
Steubenville, Ohio 43952

Tri-County Regional Planning
Commission
578 West Market Street
Akron, Ohio 44303

Tri-County Regional Planning
Commission
535 N. Clifford
Lansing, Michigan 48912

Tri-County Regional Planning
Commission
304 Peoria County Courthouse
Peoria, Illinois 61602

U.S. Army Engineer District, Chicago
Corps of Engineers
219 South Dearborn Street
Chicago, Illinois 60604

U.S. Army Engineer District, Detroit
P.O. Box 1027
Detroit, Michigan 48231

*See footnote at end of appendix.

U.S. Bureau of Labor Statistics
Federal Building
219 South Dearborn Street
Chicago, Illinois 60604

U.S. Government Printing Office
Superintendent of Documents
Washington, D. C. 20210

University of Kentucky
Bureau of Business Research
College of Commerce
Lexington, Kentucky 40506

University of Michigan
Bureau of Business Research
Ann Arbor, Michigan 48104

University of Toledo
Business Research Center
Toledo, Ohio 43606

University of Wisconsin
Graduate School of Business
Bureau of Business Research
Madison, Wisconsin 53706

Upper Midwest Research and Development Council
950 Federal Reserve Bank Building
Minneapolis, Minnesota 55440

Wayne State University
Institute for Regional and Urban Studies
Detroit, Michigan 48202

Wisconsin Department of Industry, Labor, and Human Relations*
State Employment Service
P.O. Box 1607
4802 Sheboygan Avenue
Madison, Wisconsin 53701

Wisconsin Department of Resource Development
Division of Planning
Madison, Wisconsin 53702

*State employment security agencies marked with an asterisk (*) prepare Area Skill Surveys concerned with manpower demands and supply under the Smaller Communities Program of the U.S. Employment Service.

APPENDIX E

DEFINITIONS OF STANDARD METROPOLITAN STATISTICAL AREAS*

IN THE NORTH CENTRAL REGION OF THE BUREAU OF LABOR STATISTICS

Area Title	Definition (Counties)
AKRON Ohio	*Portage* *Summit*
ANDERSON Indiana	*Madison*
ANN ARBOR Michigan	*Washtenaw*
BAY CITY Michigan	*Bay*
BLOOMINGTON-NORMAL Illinois	*McLean*
CANTON Ohio	*Stark*
CHAMPAIGN-URBANA Illinois	*Champaign*
CHICAGO Illinois	*Cook* *Du Page* *Kane* *Lake* *McHenry* *Will*
CINCINNATI Ohio-Kentucky-Indiana	Ohio *Clermont* *Hamilton* *Warren* Kentucky *Boone* *Campbell* *Kenton* Indiana *Dearborn*

*The concept of "Standard Metropolitan Statistical Areas" (SMSA's) has been developed to meet the need for the presentation of general-purpose statistics by agencies of the Federal Government, in accordance with specific criteria for defining such areas. On the basis of these criteria, "definitions" of the areas in terms of geographic boundaries are established by the Bureau of the Budget with the advice of the Federal Committee on Standard Metropolitan Statistical Areas.

The general concept of a metropolitan area is one of an integrated economic and social unit with a recognized large population nucleus. To serve the statistical purposes for which metropolitan areas are defined, their parts must themselves be areas for which statistics are usually or often collected. Thus, each SMSA must contain at least one city of at least 50,000 inhabitants. The SMSA will then include the county of such a central city and adjacent counties that are found to be metropolitan in character and economically and socially integrated with the county of the central city. (In New England, the units comprising the area are the towns rather than counties; however, no New England SMSA's are included here.)

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Area Title	Definition (Counties)
CLEVELAND Ohio	*Cuyahoga* *Geauga* *Lake* *Medina*
COLUMBUS Ohio	*Delaware* *Franklin* *Pickaway*
DAVENPORT- ROCK ISLAND - MOLINE Iowa- Illinois	Iowa *Scott* Illinois *Rock Island* *Henry*
DAYTON Ohio	*Greene* *Miami* *Montgomery* *Preble*
DECATUR Illinois	*Macon*
DETROIT Michigan	*Macomb* *Oakland* *Wayne*
DULUTH- SUPERIOR Minnesota- Wisconsin	Minnesota *St. Louis* Wisconsin *Douglas*
EVANSVILLE Indiana- Kentucky	Indiana *Vanderburgh* *Warrick* Kentucky *Henderson*
FARGO- MOOREHEAD North Dakota- Minnesota	North Dakota *Cass* Minnesota *Clay*

Area Title	Definition (Counties)
FLINT Michigan	*Genesee* *Lapeer*
FORT WAYNE Indiana	*Allen*
GARY- HAMMOND- EAST CHICAGO Indiana	*Lake* *Porter*
GRAND RAPIDS Michigan	*Kent* *Ottawa*
GREEN BAY Wisconsin	*Brown*
HAMILTON- MIDDLETOWN Ohio	*Butler*
HUNTINGTON- ASHLAND West Virginia- Kentucky- Ohio	West Virginia *Cabell* *Wayne* Kentucky *Boyd* Ohio *Lawrence*
INDIANAPOLIS Indiana	*Boone* *Hamilton* *Hancock* *Hendricks* *Johnson* *Marion* *Morgan* *Shelby*
JACKSON Michigan	*Jackson*
KALAMAZOO Michigan	*Kalamazoo*

Area Title	Definition (Counties)
KENOSHA Wisconsin	*Kenosha*
LAFAYETTE- WEST LAFAYETTE Indiana	*Tippecanoe*
LANSING Michigan	*Clinton* *Eaton* *Ingham*
LEXINGTON Kentucky	*Fayette*
LIMA Ohio	*Allen* *Putnam* *Van Wert*
LORAIN- ELYRIA Ohio	*Lorain*
LOUISVILLE Kentucky- Indiana	Kentucky *Jefferson* Indiana *Clark* *Floyd*
MADISON Wisconsin	*Dane*
MANSFIELD Ohio	*Richland*
MILWAUKEE Wisconsin	*Milwaukee* *Ozaukee* *Washington* *Waukesha*
MINNEAPOLIS- ST. PAUL Minnesota	*Anoka* *Dakota* *Hennepin* *Ramsey* *Washington*
MUNCIE Indiana	*Delaware*
MUSKEGON- MUSKEGON HEIGHTS Michigan	*Muskegon*
PEORIA Illinois	*Peoria* *Tazewell* *Woodford*
RACINE Wisconsin	*Racine*
ROCKFORD Illinois	*Boone* *Winnebago*
SAGINAW Michigan	*Saginaw*
ST.LOUIS Missouri- Illinois	Missouri *St. Louis City* *Franklin* *Jefferson* *St. Charles* *St. Louis* Illinois *Madison* *St. Clair*
SOUTH BEND Indiana	*St. Joseph* *Marshall*
SPRINGFIELD Illinois	*Sangamon*
SPRINGFIELD Ohio	*Clark*
STEUBENVILLE- WEIRTON Ohio - West Virginia	Ohio *Jefferson* West Virginia *Brooke* *Hancock*

Area Title	Definition (Counties)
TERRE HAUTE Indiana	*Clay* *Sullivan* *Vermillion* *Vigo*
TOLEDO Ohio- Michigan	Ohio *Lucas* *Wood* Michigan *Monroe*
WHEELING West Virginia- Ohio	West Virginia *Marshall* *Ohio* Ohio *Belmont*
YOUNGSTOWN- WARREN Ohio	Mahoning Trumbull

APPENDIX F

AREA INDEX

(Note: A listing in this index does not necessarily indicate that the publications referred to give data for that area specifically. Listing here only indicates that the listed area is included in the scope of the study. To learn which areas are specifically covered, read the last section of the complete annotation. Also, note that numbers given are study numbers, not page numbers)

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Statewide (Study No.)	*Cities, Metropolitan Areas*	*Counties*	*Areas, Regions*
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Statewide (Study No.)	*Cities, Metropolitan Areas*	*Counties*	*Areas, Regions*
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